

PERMIT APPLICATION - NATURAL GAS PROCESSING NORTH DAKOTA DEPARTMENT OF HEALTH

DIVISION OF AIR QUALITY SFN 11408 (12-05) AP 107

GF	N	F	R	Δ	I

GENERAL								
Name of Firm or Organization							Application Date	
Person Submitting Application				Title			Telephone Number	
Mailing Address				City & State			Zip Code	
Plant Location 1/4 Sec. Twp. Rge.				County			Source ID	
	· · · · · · · · · · · · · · · · · · ·	,						
SWEETENING OPERATIONS Chemical Process (Amine, Selexol, Stretford, Etc.)				Inlet Gas Capacity				
Inlet Gas Composition (Mol %)							X 10	⁶ standard cu. ft/day
Hydrogen Sulfide, H ₂ S			1		Methane, C ₁			
Carbon Dioxide, CO ₂				Ethane, C ₂				
Water, H ₂ O					Propane Plus, C ₃ +			
Nitrogen, N ₂				Other - Specify				
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ACID GAS FLARE - STACK DATA								
	AVERAGE ACID RATE TO F				MAXIMUM ACID GAS FLOW RATE TO FLARE	С	H ₂ S CONTENT (%)	HEAT CONTENT OF GAS (BTU/ACF)
Height Above Grade (Ft)	SCFM				SCFM			
Inside Diameter at Exit (Ft)	ACFM		CFM		ACFM			
ACID GAS FLARE - STACK EMISSIONS								
Pollutant	MAXIMUM POUNDS TONS PER PER HOUR HOUR		₹	Basis ar	nd Calculations for Quantities:			
Particulate								
Sulfur Dioxide								
Nitrogen Oxides								
Carbon Monoxide								
Other - Specify								
SULFUR RECOVERY OPERATIONS								
Chemical Process (Clause, Amoco, MRCR, E	tc.)			Acid Ga	s Flow Rate		x 10	⁶ standard cu. ft/day
Acid Gas Composition (Mol %)			_					
Hydrogen Sulfide, H ₂ S					Ethane, C ₂			
Carbon Dioxide, CO ₂					Propane Plus, C ₃ +			
Water, H₂O					Other - Specify			
Methane, C ₁								
lo a tail goo deepup process and for a disciple	a SO omionicas?		To::	I Coo Cla	oup Process (CPA Sulfrage SCOT	uto \		
□ YES □ NO					Tail Gas Cleanup Process (CBA, Sulfreen, SCOT, etc.)			
Overall Recovery Efficiency			Elemental Sulfur Recovered				I T/Day	

TAIL GAS INCINERATOR - OPERATIONS Name of Incinerator Manufacturer			Heat R	telease		BTU/HR	Model N umber		
Inlet Gas Compo	esition (Mol %)		<u> </u>				D10/1110		
Hydrogen Sulfide, H ₂ S					Nitrogen, N ₂				
Carbon Dioxide, CO ₂					Other - Specify				
W	ater, H ₂ O								
N	trogen, N ₂								
AIL GAS INCI	NERATOR - STACK D	DATA							
						EXIT GAS FLOW RATE		AVERAGE	MAXIMUM
Height Above G	ade (Ft)	Gas Temperature at Exi	t (Average 年)				SCFM		
Inside Diameter	at Exit (Ft)	Gas Velocity at Exit	(Average FPS)				ACFM		
AIL GAS INCI	NERATOR - STACK E	EMISSIONS							
Pollutant		MAXIMUM POUNDS PER HOUR	TONS PER YEAR	Bas	is and Ca	culations for Quantities:			
Particulate									
Sulfur Dioxide									
Nitrogen Oxides									
Carbon Monoxid	e								
Other - Specify									
MERGENCY I	LARE - STACK DATA	Α							
			ACID GAS FLOW TO FLARE			MAXIMUM ACID GAS FLOV RATE TO FLARE	N	H₂S CONTENT (%)	HEAT CONTENT OF GAS (BTU/ACF)
Height Above G		Ft)	(SCFM			SCFM		
Inside Diameter	at Exit (Ft)	,	ACFM			ACFM		
MERGENCY I	LARE - STACK EMIS	<u> </u>					<u> </u>		
Pollutant		MAXIMUM POUNDS PER HOUR	TONS PER YEAR	Bas	is and Ca	culations for Quantities:			
Particulate									
Sulfur Dioxide									
				_					

Pollutant	MAXIMUM POUNDS PER HOUR	TONS PER YEAR	Basis and Calculations for Quantities:
Particulate			
Sulfur Dioxide			
Nitrogen Oxides			
Carbon Monoxide			
Other - Specify			

Signature of Applicant	Date
X	

SEND COMPLETED APPLICATION TO:

North Dakota Department of Health Division of Air Quality 918 E Divide, 2nd Floor Bismarck, ND 58501-1947

Telephone: (701)328-5188